AMENDMENTS TO THE CLAIMS

1. (Canceled)

2. (Currently amended) A mobile wireless terminal apparatus in a mobile wireless

communication system which has a public network, a private network and a public wireless LAN

system and comprises:

a virtual private network relay apparatus which establishes an IPsec tunnel with a

network relay apparatus installed on the private network via the public network, further

establishes the IPsec tunnel with the mobile wireless terminal apparatus and relays connection of

the mobile wireless terminal apparatus from the public wireless LAN system to the private

network,

a connection authentication server that is installed on the public wireless LAN system

and authenticates connection of the mobile wireless terminal apparatus to the public wireless

LAN system, and

a wireless LAN access point that relays connection authentication procedures of [[a]] the

public wireless LAN performed between the mobile wireless terminal apparatus and the

connection authentication server, the mobile wireless terminal apparatus comprising:

an authentication processing section that performs authentication processing [[of]]

for connection to the public wireless LAN system and to the connection authentication server;

an address acquiring section that acquires an IP address of the virtual private

network relay apparatus from the connection authentication server when the connection to the

public wireless LAN system is permitted;

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an address notifying section that notifies sends an IP address of the mobile

wireless terminal apparatus to the virtual private network relay apparatus, via the connection

authentication server; and

an IPsec key exchanging section that performs an IPsec key exchange with the

virtual private network relay apparatus using the IP address of the virtual private network relay

apparatus, wherein the IPsec key exchange is performed by IPsec main mode.

3-4. (Canceled)

5. (Currently amended) A mobile wireless terminal apparatus in a mobile wireless

communication system which has a public network, a private network and a public wireless LAN

system and comprises:

a virtual private network relay apparatus which establishes an IPsec tunnel with a

network relay apparatus installed on the private network via the public network, further

establishes the IPsec tunnel with the mobile wireless terminal apparatus and relays connection of

the mobile wireless terminal apparatus from the public wireless LAN system to the private

network,

a home agent that controls moving movement of the mobile wireless terminal apparatus,

a connection authentication server that is installed on the public wireless LAN system

and authenticates connection of the mobile wireless terminal apparatus to the public wireless

LAN system, and

a wireless LAN access point that relays connection authentication procedures of [[a]] the

public wireless LAN performed between the mobile wireless terminal apparatus and the

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connection authentication server, the mobile wireless terminal apparatus comprising:

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1420 Fifth Avenue Suite 2800

Seattle, Washington 98101 206.682.8100

an authentication processing section that performs authentication processing [[of]]

for connection to the public wireless LAN system and to the connection authentication server;

an address acquiring section that acquires an IP address of the virtual private

network relay apparatus from the connection authentication server when the connection to the

public wireless LAN system is permitted;

an address notifying section that notifies sends an IP address of the mobile

wireless terminal apparatus to the virtual private network relay apparatus, via the connection

authentication server;

an IPsec shared key acquiring section that acquires an IPsec pre-shared secret key,

from the connection authentication server, for use in [[the]] an IPsec key exchange performed

with the virtual private network relay apparatus from the connection authentication server;

an MIP shared key acquiring section that acquires an MIP pre-shared secret key,

from the connection authentication server, for use in mobile IP registration with the home agent

from the connection authentication server;

an IPsec key exchanging section that performs exchange of the IPsec key with the

virtual private network relay apparatus using the IPsec pre-shared secret key, wherein the IPsec

key exchange is performed by IPsec main mode; and

an MIP registering section that [[makes]] initiates the mobile IP registration to the

home agent using the MIP pre-shared secret key.

6-14. (Canceled)

15. (New) A mobile wireless terminal apparatus comprising:

an authentication processing section that performs authentication processing for

connection to the public wireless LAN system and to the connection authentication server;

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Suite 2800

Seattle, Washington 98101 206.682.8100

an address acquiring section that acquires an IP address of the virtual private network

relay apparatus from the connection authentication server when the connection to the public

wireless LAN system is permitted;

an address notifying section that sends an IP address of the mobile wireless terminal

apparatus to the virtual private network relay apparatus, via the connection authentication server;

and

an IPsec key exchanging section that performs an IPsec key exchange with the virtual

private network relay apparatus using the IP address of the virtual private network relay

apparatus, wherein the IPsec key exchange is performed by IPsec main mode.

16. (New) A mobile wireless terminal apparatus comprising:

an authentication processing section that performs authentication processing for

connection to the public wireless LAN system and to the connection authentication server;

an address acquiring section that acquires an IP address of the virtual private network

relay apparatus from the connection authentication server when the connection to the public

wireless LAN system is permitted;

an address notifying section that sends an IP address of the mobile wireless terminal

apparatus to the virtual private network relay apparatus, via the connection authentication server;

an IPsec shared key acquiring section that acquires an IPsec pre-shared secret key, from

the connection authentication server, for use in an IPsec key exchange performed with the virtual

private network relay apparatus;

an MIP shared key acquiring section that acquires an MIP pre-shared secret key, from the

connection authentication server, for use in mobile IP registration with the home agent;

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Suite 2800

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an IPsec key exchanging section that performs exchange of the IPsec key with the virtual private network relay apparatus using the IPsec pre-shared secret key, wherein the IPsec key exchange is performed by IPsec main mode; and

an MIP registering section that initiates the mobile IP registration to the home agent using the MIP pre-shared secret key.

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